AMENDMENTS

In the Claims:

1. (currently amended) An intelligent docking station (IDS) system, comprising:

a docking station having a co-processor capable of converting a hand held-based data element into a device enabled data element, where the device is not a docking station;

a bus that couples the docking station to a handheld computer;

the handheld computer having a processor operated by a first operating system;

the co-processor being operated by a second operating system, the second operating system communicating with a top-level driver capable of formatting handheld-based data element into a device enabled data element, and also enabled to deliver the device enabled data element to a low level device driver, the top level driver translates and transfers data between the handled computer and the docking station, and the low level driver translates data between the docking station and a device controlled by the low level device driver, the device coupled to the docking station;

the first operating system communicates by using a first device driver to create a first device driver data, the first device driver data capable of animating a first device being converted by the second operating system to a second device driver data capable of animating a second device; and

the second operating system directing the transfer of data from the handheld computer and to the docking station, and from the docking station and to the handheld computer; and

a device coupled to the docking station, the device capable of receiving the device enabled data element from the low level driver.

2. (original) The IDS system of claim 1 wherein the device is a monitor.

3. (original)   The IDS system of claim 1 wherein the device is a mouse.

4. (original) The IDS system of claim 1 wherein the device is memory.

5. (original) The IDS system of claim 1 wherein the bus is a wireless connection.

6. (original)   The IDS system of claim 1 wherein the device coupled to the docking station is integrated with the IDS.

7. (original)   The IDS of claim 1 further comprising a communication driver integrated with the IDS, the communication driver capable of converting signals between a bus-enabled data element and an IDS enabled data element.

8. (original)   The IDS of claim 1 further comprising a communication driver integrated with the handheld device, the communication driver capable of converting signals between a bus-enabled data element and a handheld data element.

9. (original)   The IDS of claim 1 wherein the IDS comprises an IDS Coprocessor having an IDS OS capable of directing a top-level device driver and a low-level device driver, wherein the low-level device driver is enabled to convert between a device data element and a IDS enabled data element.

10. (currently amended) A software system for an intelligent docking station, comprising:

an IDS operating system;

a communication driver, the communication driver capable of sending and receiving bus-enabled data elements ~~associated with a handheld computer operating system~~;

a low-level device driver, the low-level device driver capable of sending and receiving device-based data elements;

a top-level device driver, the top-level device driver capable of assembling and formatting data elements for a low-level device driver;

the IDS operating system ~~adapted to communicate~~ communicates with a first operating system for a handheld computer having a processor; and

the IDS operating system being adapted to execute via a co-processor communicating with the top-level driver, and also enabled to deliver a device enabled data element to the low-level device driver~~, such that the IDS operating system accepts a first data that drives a first device, where the first device is not a docking station, and then the IDS operating system changes the first data to a second data that drives a second peripheral without the participation of the handheld computer operating system~~.

11. (original) The system of claim 10 wherein the IDS computer operating system is enabled to convert a data element between a type compatible with the low-level device driver, and a type compatible with the top-level device driver.

12.   (currently amended) A software system for enabling a handheld computer to use an intelligent docking station, the system comprising:

an IDS operating system;

a low-level device driver in communication with the IDS operating system;

a top-level device driver in communication with the IDS operating system;

a communication driver in communication with the top level device driver, the communication driver capable of converting signals between a bus-enabled data element ~~associated with a handheld computer operating system~~ and a handheld data element;

the IDS operating system adapted to communicate with a first operating system for a handheld computer having a processor; and

the IDS operating system being adapted to execute via a co-processor communicating with the top-level driver, and also enabled to deliver a device enabled data element to the low-level device driver~~, such that the IDS operating system accepts a first data that drives a first device, where the first device is not a docking station, and then the IDS operating system changes the first data to a second data that drives a second peripheral without the participation of the handheld computer operating system~~.

13. (original) The software system of claim 12 further comprising a bus coupled between the communication driver and a second communication driver located in a handheld.

14. (original) The software system of claim 13 wherein the bus is a wireless system.

15. (original) The software system of claim 13 further comprising a top-level device driver coupled between the second communication driver and a handheld OS.

16. (original) The software system of claim 12 wherein the low-level device driver is a keyboard driver.

17. (original) The software system of claim 12 wherein the low-level device driver is a monitor driver.

18. (original) The software system of claim 12 wherein the low-level device driver is capable of reading and writing data to memory.

19. (original) The software system of claim 12 wherein the bus is a Bluetooth network.

20. (original) The software system of claim 12 wherein the bus is an optical bus.